# Munronia petiolata (Meliaceae), a new species from Vietnam

N.T. Cuong<sup>1</sup>, D.T. Hoan<sup>1</sup>, D.J. Mabberley<sup>2</sup>

Key words

Meliaceae Munronia Munronia petiolata Vietnam

Abstract The genus Munronia (Meliaceae) is briefly reviewed and its representation in Vietnam discussed. In consequence a new species, Munronia petiolata, is described; so far known only from Ha Long Bay, it is distinct from all known simple-leaved species, most strikingly, in its long petioles.

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### INTRODUCTION

Munronia Wight (Meliaceae), a genus commemorating William Munro (1818–1880, British army general and plant-collector, some time stationed in India (Mabberley 2013)), currently comprises four species of shrublets restricted to the Indomalesian and tropical Chinese regions (Mabberley 2014: 562). The genus was reviewed by Pennington in Pennington & Styles (1975: 452-454) and Mabberley (2011), the most recent revision being that of Harms (1940).

Although, according to IPNI, 24 binomials referable to Munronia, are in the literature, one of these refers to a species of Meliosma Blume (Sabiaceae) and most of the other names are now considered synonyms of Munronia pinnata (Wall.) W.Theob. or M. unifoliolata Oliv., both of which species are widespread in the region.

To the west, there is just M. pinnata from Sri Lanka and India (Mabberley 1995b); to the east, only three species – M. pinnata, M. humilis Harms and M. breviflora (Ridl.) Muellner & Mabb. from Malesia (Mabberley 1995a, Muellner & Mabberley 2008, Mabberley 2013); and to the north, just two – M. pinnata (the recently described M. yinggelingensis R.J.Zhang et al. probably being referable to this variable widespread species) and M. unifoliolata - from China (Peng & Mabberley 2008). Representation in the central part of the distribution of the genus is less well understood (but see Pellegrin 1911, 1950) though currently for Vietnam only the two species also known from China are recognized as native (Pham 2000).

Very recently, however, a very distinctive plant, notable for its overall size and very long petioles, has been found by the first author on limestone islands in Ha Long Bay, North Vietnam, and we therefore describe it as a new species below.

## **MUNRONIA IN VIETNAM**

The genus Munronia is now known to be represented in Vietnam by three species, which can be keyed out as follows:

- 1. Leaves imparipinnate. . . . . . . . . . . . . . . M. pinnata 1. Leaves simple ..... 2
- <sup>1</sup> Institute of Ecology and Biological Resources, Vietnam Academy of Sciences and Technology, 18 Hoang Quoc Viet Street, Cau Giay District, Hanoi City, Vietnam; corresponding author e-mail: cuongntc1979@yahoo.com.
- <sup>2</sup> Naturalis Biodiversity Center, Leiden, The Netherlands; Wadham College, University of Oxford, United Kingdom; Royal Botanic Gardens & Domain Trust, Sydney, Australia.

- 2. Plants 10-20 cm tall. Petiole 0.8-2(-3) cm long; lamina 2.5-6(-12) by 1-2 cm. Thyrses with 1-3 flowers; pedicel (3–)5–10 mm long, without articulationor bracteoles. Seeds black ..... M. unifoliolata
- 2. Plants 30-60 cm tall. Petiole 2-4.5 cm long; lamina 8.5-17.5 by 2.5–3.3 cm. Thyrses with 3–5 flowers; pedicel 10–15 mm long, articulated, bracteolate. Seeds yellowish . . . . . ..... M. petiolata

## Munronia petiolata N.T.Cuong, D.T.Hoan & Mabb., sp. nov. — Fig. 1

Type. N.T. Cuong 301 (holotypus HN; isotypus HN, NY), Vietnam, Quang Ninh province, Ha Long Bay, Bo Hon Island (N20°48'18.6" E107°07'14.1"), 17 July 2014.

Shrublet 30-60 cm tall. Stem weakly branched; branches pubescent with simple and 3-5-branched stellate hairs to glabrescent. Leaves in spirals, clustered near branch apices, simple; petiole 2-4.5 cm, puberulent; lamina lanceolate or oblong-elliptic, 8.5–17.5 by 2.5–3.3 cm, membranous, abaxially puberulent along midvein and lateral veins, adaxially glabrous or sometimes sparsely pubescent along midvein, lateral veins 6-12 on each side, base cuneate or rounded, margin entire, apex acute, acuminate to caudate. Thyrses subterminal and axillary on apical part of branches, 3-5 cm long, with 3-5 flowers, pubescent; peduncle 1-2 cm long, pedicel 1-1.5 cm long, articulated; bracts linear, 1-2 mm long, accrescent to 5-6 mm in young fruits, pubescent. Calyx pubescent; lobes linear to elliptic, 2–3 mm long, free, apex rotund to weakly acuminate. Corolla white, 2–3 cm long; tube slender, 1.5–2 cm long; lobes obovate, oblanceolate, or elliptic, 12-15 by 5-7 mm, apex acute to rounded. Staminal tube exserted from corolla tube, glabrous; lobes linear, 1.5–2 mm long, apically bifid; anthers elliptic or ovate, 1.5-2 mm long, lanulose with simple hairs, apex acute to mucronate. Ovary subglobose, puberulent; style linear, slightly exserted from staminal tube; stigma 0.5 mm diam. Capsule1-1.2 cm diam, depressed globose to pyriform, 4-lobed and -ribbed externally, pubescent; 4 locules, each locule with 1-2 seeds. Seeds yellowish, ovoid, 4-6 mm long, smooth, adaxially concave.

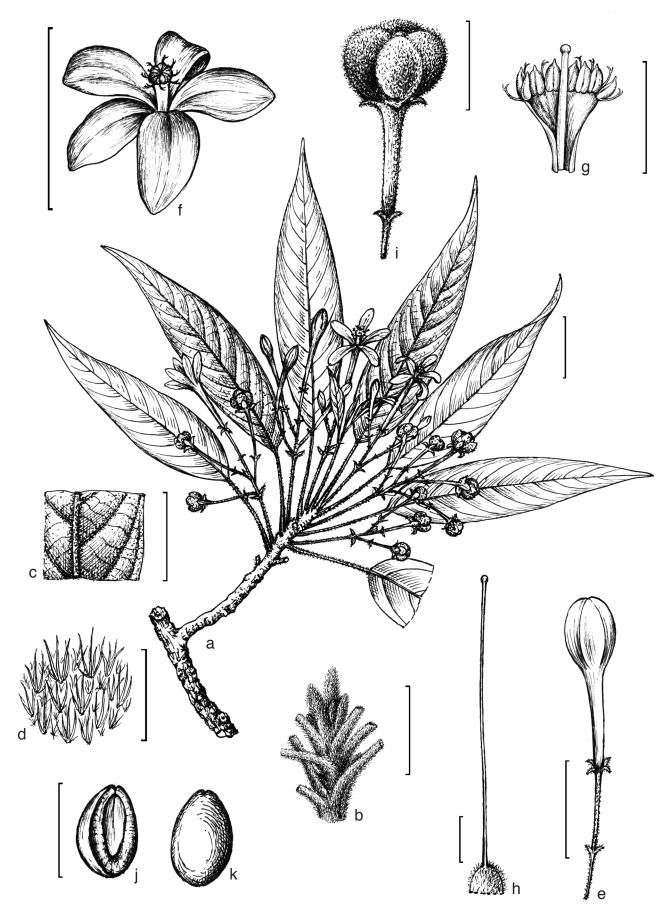
Flowering & Fruiting — June to September.

Distribution & Habitat — Apparently restricted to the islands of Bo Hon, Hang Luon and Cat Lan in Ha Long Bay, Quang Ninh province, Vietnam. It was found growing in crevices of rocks and cliffs on limestone with Dracaena cambodiana Pierre ex

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**Fig. 1** *Munronia petiolata* N.T.Cuong, D.T.Hoan & Mabb. a. Branch bearing inflorescences and infructescences; b. detail of apical bud of the shoot; c. detail of leaf; d. stellate hairs in fruit; e. bud; f. corolla lobes and staminal tube; g. detail of androecium apex with style; h. ovary and style; i. capsule; j. seed (dorsal); k. seed (ventral) (all: *N.T. Cuong 302*, HN). — Scale bars: a = 2 cm; b, c, e, i = 1 cm; d = 1 mm; f = 1.5 cm; g = 5 mm; h = 2 mm; j, k = 6 mm. Drawn by L.K. Chi.

Gagnep., *Pterospermum truncatolobatum* Gagnep., *Sterculia lanceolata* Cav., *Bauhinia ornata* Kurz, *Glochidion ellipticum* Wight, *Buxus latistyla* Gagnep., *Pistacia weinmaniifolia* J.Poiss. ex Franch. and *Schefflera alongensis* R.Vig.

Conservation status — *Munronia petiolata* is known only from three limestone islands in Ha Long Bay, North Vietnam, where its distribution covers over 434 km<sup>2</sup>. The numbers of plants in the populations and their phenology have so far not been investigated. More research is needed so the species has to be regarded as Not Evaluated (NE) in the threat categories of IUCN (2012).

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